```
ring bonds :
1-2   1-6   2-3   3-4   3-14   4-5   4-7   5-6   7-8   7-9   8-12   9-10   9-14   10-11   11-12
exact/norm bonds :
2-15   3-14   4-7   6-18   9-14
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   7-8   7-9   8-12   9-10   10-11   11-12
```

G1:Ir,Rh

G2:Cl,Br,F,CH3,Et,n-Pr,i-Pr,Ph,MeO,EtO,n-PrO,i-PrO,CN,NO2

```
Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:Atom   8:Atom   9:Atom   10:Atom
11:Atom   12:Atom   14:Atom   15:CLASS   18:CLASS
```

L1   STRUCTURE UPLOADED
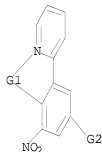
=> d his

    (FILE 'HOME' ENTERED AT 10:25:32 ON 22 JUN 2009)

    FILE 'REGISTRY' ENTERED AT 10:25:54 ON 22 JUN 2009
L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

G1 Ir,Rh
G2 Cl,Br,F,Me,Et,n-Pr,i-Pr,Ph,MeO,EtO,n-PrO,i-PrO,CN,NO2

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 10:26:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   5 TO ITERATE

100.0% PROCESSED   5 ITERATIONS   2 ANSWERS
SEARCH TIME: 00.00.01

```
FULL FILE PROJECTIONS:   ONLINE   **COMPLETE**
                         BATCH    **COMPLETE**
PROJECTED ITERATIONS:           5 TO      234
PROJECTED ANSWERS:              2 TO      124
```

```
L2            2 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 10:26:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      74 TO ITERATE

100.0% PROCESSED       74 ITERATIONS                           9 ANSWERS
SEARCH TIME: 00.00.01

L3            9 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                           SINCE FILE      TOTAL
                                                    ENTRY    SESSION
FULL ESTIMATED COST                                185.88     186.10

FILE 'CAPLUS' ENTERED AT 10:26:34 ON 22 JUN 2009
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FILE COVERS 1907 - 22 Jun 2009  VOL 150 ISS 26
FILE LAST UPDATED: 21 Jun 2009  (20090621/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Apr 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Feb 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l3
L4          1 L3

=> d bib abs

L4   ANSWER 1 OF 1  CAPLUS   COPYRIGHT 2009 ACS on STN
AN   2006:632152  CAPLUS
DN   145:112952
TI   Metal complexes with nucleophilic carbene ligands and devices and
     processes using them
IN   Pretot, Roger; Van Der Schaaf, Paul Adriaan; Schmidt, Jemima;
     Schmidhalter, Beat; Schaefer, Thomas; Lamatsch, Bernd
PA   Ciba Specialty Chemicals Holding Inc., Switz.
SO   PCT Int. Appl., 149 pp.
     CODEN: PIXXD2
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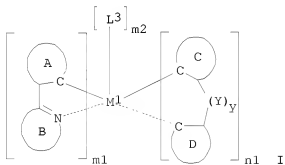
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DT    Patent
LA    English
FAN.CNT 1
      PATENT NO.          KIND   DATE         APPLICATION NO.          DATE
      ---------------     ----   --------     --------------------     --------
PI    WO 2006067074       A1     20060629     WO 2005-EP56767          20051214
       W:   AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
            KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
            MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
            SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
            VN, YU, ZA, ZM, ZW
       RW:  AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
            IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
            CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
            GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM
      CA 2589711          A1     20060629     CA 2005-2589711          20051214
      EP 1841834          A1     20071010     EP 2005-817212           20051214
      EP 1841834          B1     20090506
       R:   AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
            IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
      CN 101087863        A      20071212     CN 2005-80044163         20051214
      JP 2008525366       T      20080717     JP 2007-547457           20051214
      AT 430789           T      20090515     AT 2005-817212           20051214
      IN 2007CN02780      A      20070907     IN 2007-CN2780           20070625
      KR 2007091355       A      20070910     KR 2007-716762           20070720
PRAI  EP 2004-106916      A      20041223
      WO 2005-EP56767     W      20051214
OS    MARPAT 145:112952
GI
```



```
AB    The title complexes are described by the general formula I (ring A = an
      optionally substituted aryl group which can optionally contain
      heteroatoms; ring B = an optionally substituted nitrogen-containing aryl
      group, which can optionally contain further heteroatoms; ring A and ring B
      may be bonded to form a ring; group C = an acyclic carbene or a cyclic
      carbene which can optionally contain heteroatoms; ring D = an optionally
      substituted aryl group which can optionally contain heteroatoms; n1 = 1 =
      3, m1 = 0, 1, or 2; m2 = 0 or 1; M1 = a metal with an atomic weight > 40; L3 =
a
      monodentate or bidentate ligand; Y = -C(=O)- or -C(X1)2-; X1 = H or C1-4
      alkyl; and y = 0 or 1) with the exception of certain specified compds.
      The use of the compds. is described in electronic devices, especially organic
```

```
      light-emitting diodes, as oxygen-sensitive indicators, as phosphorescent
      indicators in bioassays, and as catalysts.  Organic electronic devices,
especially
      organic light-emitting diodes, comprising an emitting layer which comprises
      the compds., as well as displays employing the light-emitting diodes, are
      also described.
RE.CNT   7      THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT


=>


---Logging off of STN---



=>
Executing the logoff script...


=> LOG Y

COST IN U.S. DOLLARS                                 SINCE FILE      TOTAL
                                                        ENTRY       SESSION
FULL ESTIMATED COST                                      4.50       190.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)           SINCE FILE      TOTAL
                                                        ENTRY       SESSION
CA SUBSCRIBER PRICE                                     -0.82        -0.82

STN INTERNATIONAL LOGOFF AT 10:28:28 ON 22 JUN 2009



Connecting via Winsock to STN




Welcome to STN International!  Enter x:x
```

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


```
* * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1         Web Page for STN Seminar Schedule - N. America
 NEWS  2  DEC 01 ChemPort single article sales feature unavailable
 NEWS  3  APR 03 CAS coverage of exemplified prophetic substances
                 enhanced
 NEWS  4  APR 07 STN is raising the limits on saved answers
 NEWS  5  APR 24 CA/CAplus now has more comprehensive patent assignee
                 information
 NEWS  6  APR 26 USPATFULL and USPAT2 enhanced with patent
                 assignment/reassignment information
 NEWS  7  APR 28 CAS patent authority coverage expanded
 NEWS  8  APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
 NEWS  9  APR 28 Limits doubled for structure searching in CAS
                 REGISTRY
```

```
NEWS 10  MAY 08  STN Express, Version 8.4, now available
NEWS 11  MAY 11  STN on the Web enhanced
NEWS 12  MAY 11  BEILSTEIN substance information now available on
                 STN Easy
NEWS 13  MAY 14  DGENE, PCTGEN and USGENE enhanced with increased
                 limits for exact sequence match searches and
                 introduction of free HIT display format
NEWS 14  MAY 15  INPADOCDB and INPAFAMDB enhanced with Chinese legal
                 status data
NEWS 15  MAY 28  CAS databases on STN enhanced with NANO super role in
                 records back to 1992
NEWS 16  JUN 01  CAS REGISTRY Source of Registration (SR) searching
                 enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
             AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:31:02 ON 22 JUN 2009

*** YOU HAVE MAIL ***

=> fil reg
COST IN U.S. DOLLARS                          SINCE FILE     TOTAL
                                                  ENTRY    SESSION
FULL ESTIMATED COST                                0.22       0.22

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STRUCTURE FILE UPDATES:   21 JUN 2009  HIGHEST RN 1159253-26-5
DICTIONARY FILE UPDATES:  21 JUN 2009  HIGHEST RN 1159253-26-5

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experimental property data in the original document.  For information
```

on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\STNEXP\Queries\532185-1.str

chain nodes :
14 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 13
chain bonds :
1-14 5-17
ring bonds :
1-2 1-5 2-3 2-13 3-4 3-6 4-5 6-7 6-8 7-11 8-9 8-13 9-10 10-11
exact/norm bonds :
1-14 1-2 1-5 2-3 2-13 3-4 3-6 4-5 5-17 8-13
normalized bonds :
6-7 6-8 7-11 8-9 9-10 10-11

G1:Ir,Rh

G2:Cl,Br,F,CH3,Et,n-Pr,i-Pr,Ph,MeO,EtO,n-PrO,i-PrO,CN,NO2

G3:O,S,N,Se

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 13:Atom 14:CLASS 17:CLASS
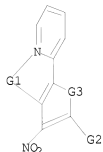

L1   STRUCTURE UPLOADED

=> d his

     (FILE 'HOME' ENTERED AT 10:31:02 ON 22 JUN 2009)

```
      FILE 'REGISTRY' ENTERED AT 10:31:14 ON 22 JUN 2009
L1              STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
```



```
G1 Ir,Rh
G2 Cl,Br,F,Me,Et,n-Pr,i-Pr,Ph,MeO,EtO,n-PrO,i-PrO,CN,NO2
G3 O,S,N,Se



Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 10:31:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.10

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:              0 TO        0
PROJECTED ANSWERS:                 0 TO        0

L2           0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 10:32:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -        0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L3           0 SEA SSS FUL L1

=>

---Logging off of STN---



=>
Executing the logoff script...


=> LOG Y
```

```
COST IN U.S. DOLLARS                              SINCE FILE       TOTAL
                                                       ENTRY     SESSION
FULL ESTIMATED COST                                   186.36      186.58

STN INTERNATIONAL LOGOFF AT 10:32:31 ON 22 JUN 2009
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